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Studies on post-synthetic treatments of micro- and mesoporous zeolites

Ortiz Iniesta, Maria Jesus

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STELLINGEN

behorende bij het proefschrift:

Studies on post-synthetic treatments of micro- and meso-porous zeolites: impact on their physicochemical and catalytic properties

van María J. Ortiz Iñiesta

1. Zeolites are inorganic analogues of enzymes as both give high selectivities for a wealth of reactions due to shape selectivity control.
A. Corma, *State of the art and future challenges of zeolites as catalysts*, J. of Cat. 216 (2003) 298-312
2. The observation that a synthetic procedure for a material has remained unchanged during more than 50 years does not mean that it cannot be improved (Chapter 2).
3. The title: “Verified syntheses of zeolitic materials” tells a lot about the level of detail required for replication of the synthesis procedure of a zeolite.
IZA Synthesis Commission, *Verified syntheses of zeolitic materials* (2001)
4. A chemical process can be designed without detailed knowledge on a molecular level. (This thesis)
5. The possibilities for Fenton chemistry in various applications are beyond imagination. (This thesis)
6. The use of Fenton methodology to delaminate MCM-22 is more effective and cheaper than the ITQ-2 synthesis procedure.
L. Xu, *Synthesis, characterization and catalytic performance of a novel zeolite ITQ-2-like by treating MCM-22 precursor with H₂O₂*, B. Mater. Sci. Vol.34-7 (2011) 1605-1610
7. The search for a catalytic process for a material with enhanced properties is quixotic (Chapter 5).
8. Claims about product yields must always go hand in hand with verified blank experiments, especially for reactions involving biomass.
K. Shimizu, *Enhanced production of hydroxymethylfurfural from fructose with solid acid catalysts by simple water removal methods*, Catal. Commun. Vol. 10, (2009) 1849-1853
9. When I was a child my grandmother used to tell me: “*Patience is the mother of science*”. At that age, I comprehended that *patience* must be taken as perseverance and tirelessness.
10. Going to the lab everyday does not ensure good results, but tons of data and friends.
11. Good weather in the Netherlands is like a rainbow, it is forecasted one week ahead but when it gets closer, it develops into clouds.